

# Succinic acid, eicosyl 3-methylbut-3-enyl ester

**Inchi:** InChI=1S/C29H54O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-25-32-28(30)  
**InchiKey:** NNAYHUTVTDENPP-UHFFFAOYSA-N  
**Formula:** C29H54O4  
**SMILES:** C=C(C)CCOC(=O)CCC(=O)OCCCCCCCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 466.74

## Physical Properties

Property code	Value	Unit	Source
gf	-195.25	kJ/mol	Joback Method
hf	-1015.85	kJ/mol	Joback Method
hfus	73.85	kJ/mol	Joback Method
hvap	97.87	kJ/mol	Joback Method
log10ws	-9.54		Crippen Method
logp	8.861		Crippen Method
mvol	430.050	ml/mol	McGowan Method
pc	670.12	kPa	Joback Method
rinpol	3221.00		NIST Webbook
tb	1012.06	K	Joback Method
tc	1258.72	K	Joback Method
tf	545.19	K	Joback Method
vc	1.690	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1508.79	J/mol×K	1012.06	Joback Method
cpg	1531.49	J/mol×K	1053.17	Joback Method
cpg	1552.14	J/mol×K	1094.28	Joback Method
cpg	1570.83	J/mol×K	1135.39	Joback Method
cpg	1587.66	J/mol×K	1176.50	Joback Method
cpg	1602.71	J/mol×K	1217.61	Joback Method
cpg	1616.09	J/mol×K	1258.72	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U353455&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353455&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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